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## Main Patent

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### Unseaming Device, In Particular for the Unseaming of Cable Sheaths of Electrical Wiring

Jakob Ehrbar, Schönenwerd (Solothurn), is named as the inventor.

The unseaming of the ends of cables for the transmission of electricity by means of the exposure of the individual cable wires for the connection of these to all types of fasteners or other sheath-like objects was previously performed with a common knife or a knife-like tool. In this process, the insulation of the individual wires was often damaged, which often led to subsequent short circuits.

This invention now concerns an unseaming device, in particular for the unseaming of cable sheaths of electrical wiring. In accordance with the invention, this is characterized in that a frontally sharpened knife is provided with a handle and with a bulge-like guide component on its one longitudinal side that has a spike with a rounded tip in the front in the direction of the object to be cut open, so that this guide component works in a searching and guiding manner and prevents damage to the parts of the working object located below the sheath to be unseamed.

The blade of the knife can run at anywhere between an apex and a right angle to the bulge. Furthermore, the handle of the knife can be designed as a pull grip or a push grip.

The drawing shows examples of different versions of the invented object. The following is shown:

Figure 1 shows a view of the first design version of the device,

Figure 2 shows a view of the knife from the edge side

Figure 3 shows the forepart of the knife at a larger scale,

Figure 4 shows a cross-section of the knife as per line IV – IV in Figure 3,

Figure 5 shows a cross-section of the knife as per line V – V in Figure 3,

Figure 6 shows the a cross-section of the knife as per line VI – VI in Figure 3,

Figure 7 shows a version of the knife during the cutting open of a cable sheath,

Figures 8 and 9 show a version of a second and third design version of the device, respectively.

In accordance with the first design form, the device has a knife 1 with a shaft 2 bent at an angle of 30 to 40 degrees, which is provided with a handle 3. The knife blade 4 is sharpened on its front side. The lower longitudinal edge of the knife 1 is provided with an edge bulge 5 that functions like a guide component, which is formed on the front end of the knife by double-sided polishing 6 into a guide spike 5', which protrudes over the blade 4 on the front and is provided with a rounded tip 5".

The device held in one hand using handle 3 with its protruding spike 5' is inserted into the insulation of the cable until the desired guide is found within the cable. Then, by pushing the device forward, the sheath 7 can be unseamed without damaging the insulation of the wires 8.

In the design version as per Figure 7, the blade 4 on the front end of the knife 1 is sharpened at a steeper angle than in Figure 1.

Instead of like in Figure 1, the handle 3 can be designed as a special push grip, as shown in Figure 8.

Figure 9 shows a design version of the device with a special pull grip. The last design version is especially practical for cutting open thick-walled cable sheaths.

The described unseaming device can naturally also be used to unseam or cut open other objects with this type of sheath-like and channel-like structure, in particular in those cases where damage to components located below the sheath or the channel must be prevented.

#### **PATENT CLAIM**

Unseaming device, in particular for the unseaming of cable sheaths, characterized in that a frontally sharpened knife provided with a handle and with a bulge-like guide component on its one longitudinal side that has a spike with a rounded tip in the front in the direction of the object to be cut open, so that this guide component works in a searching and guiding manner and prevents damage to the parts of the working object located below the sheath to be unseamed.

#### **SUBCLAIMS**

1. Device in accordance with the patent claim, characterized in that the knife has a shaft bent at an angle, which has a handle.

2. Device in accordance with the patent claim, characterized in that the blade sharpened on the front side of the cutting edge of the knife runs at an apex angle to the guide spike.

3. Device in accordance with the patent claim, characterized in that the handle on the shaft of the knife blade is designed as a push grip.

4. Device in accordance with the patent claim, characterized in that the handle on the shaft of the knife blade is designed as a pull grip.

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